## **CLAIMS**

5	What is claimed:		
	1.	(Amen	ded) A battery casing comprising:
10		a)	a bottom portion having a bottom and side walls forming a compartment for holding a battery acid and battery plates;
15		b)	top portion for covering said compartment, wherein the bottom portion and top portion are formed of a flame retardant thermoplastic composition comprising a homopolymer, a copolymer, and ammonium polyphosphate, the battery casing having a burn rating of V-O under the UL-94 standard and a flexural modulus in the range of
20			228,000 to 275,000.
	2.		ded) A battery casing formed of a flame-retardant plastic composition, comprising:
25		a)	a homopolymer
		b)	a copolymer; and
30		c)	ammonium polyphosphate, the battery casing having a burn rating of V-O under the UL-94 standard and a flexural modulus in the range of 228,000 to 275,000.
35	3.		ttery casing of Claim 2 wherein the homopolymer es Polypropylene.

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The battery casing of Claim 2 wherein the homopolymer

	-T.	includes polyethylene.
5	5.	The battery casing of Claim 2 wherein the copolymer includes ethylene and propylene.
	6.	The battery casing of Claim 2 wherein the homopolymer of the composition is in a range of between about 33 and 35 percent by weight.
10	7.	The battery casing Claim 2 wherein the copolymer of the composition is in a range of between about 33 and 35 percent by weight.
15	8.	(Amended) The battery casing of Claim 2 wherein the ammonium polyphosphate comprises a flame-retardant system having a melt flow rate in the range of 12.0 to 16.0g/10min.
20	9.	The battery casing of Claim 2 wherein the ammonium polyphosphate is in the range of between about 25 and 27 by weight.
25	10.	The battery casing Claim 2 wherein the homopolymer and copolymer are selected from polyolefins.
30	11.	(Amended) the battery casing of Claim 2 wherein the homopolymer and copolymer comprise a crystalline product formed by polymerization of one or more monoolefins selected from the group consisting of ethylene,
		propylene, 1-butene, 1-pentene, 1-hexene, 2-methyl-1-propene, 3-methyl-1-pentene, 4-methyl-1penetene, and 5-methyl-1-hexene.
35	12.	The battery casing of Claim 11 wherein monoolefins are

selected from the group consisting of proplylene and

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ethylene.

5	13.	The battery casing of Claim 12 wherein the polymerized polypropylene is selected from the group consisting of isotatic polymers of propylene, ethylene, and copolymers of propylene with ethylene.
10	14.	The battery casing of Claim 2 wherein the thermoplastic composition, also includes a filler selected from the group consisting of aluminum trihydrate, hydrated magnesium, hydrated calcium silicate and calcium carbonate.
1.5	15.	The battery casing of Claim 14 wherein said filler varies from about 0-250 parts per 100 parts of the homopolymer and copolymer.
15	16.	The battery casing of Claim 14 wherein said filler further includes melamine and polyol.
20	17.	The battery casing of Claim 2 which is included in a photovoltaic battery.
	18.	The battery casing of Claim 2 which is included in a motive battery.
25	19.	The battery casing of Claim 2 which is included in a backup battery.
30	20.	(Amended) A method for forming a flame-retardant composition for a battery casing comprising blending a homopolymer, copolymer and ammonium polyphosphate together at a temperature in a range of between about 340 and 410°F to form the flame retardant composition, the composition having a melt flow rate in the range of 9.6 to
35		16.0g/10min. and flexural modulus in the range of 228,000 to 275,000.

- 21. The method of Claim 20 wherein the composition is blended with two rotors having forward and reverse helix angles and said rotors are counterrotating and non-intermeshing.
- 22. The method of Claim 21 wherein the rotors have a diameter of about 3.84 inches and working length of about fourteen inches.

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